

- 1. (currently amended) A method for generating a digital signature in a signature device <u>having a signature</u> program and certificate with signature key stored thereon for the signing of documents, comprising the steps of:
 - a) receiving input information to said signature device; and
 - b) executing said signature program by the steps of:

 creating a signature data set comprising at least the

 received information and a document extract value of

 the document for signing; and

 c) creating an expanded digital signature by encrypting

 the signature data set with the aid of a signature key

 stored in said certificate.
 - (currently amended) The method in accordance with Claim
 wherein said receiving input information comprises

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procuring the value of a signature counter from said signature device.

- (original) The method in accordance with Claim 2, 3. further comprising, prior to said procuring, creating the signature counter as an attribute of the signature key.
- (currently amended) The method in accordance with Claim 4. 1 wherein the receiving input information comprises procuring an identifying characteristic to identify the signature device from said signature device.
- (original) The method in accordance with Claim 4, 5. wherein the receiving input information comprises procuring information as to the hardware and software environment used in creating the digital signature.
- (original) The method in accordance with Claim 1, 6. further comprising entering an identifying characteristic to identify the holder of the signature key prior to said receiving input information.



- 7. (original) The method in accordance with Claim 6, further comprising creating the identifying characteristic to identify the holder of the signature key as an attribute of the signature key.
- 8. (original) The method in accordance with Claim 7, further comprising changing the identifying characteristic to identify the holder of the signature key prior to said receiving.
- 9. (currently amended) <u>A self-authenticating An</u> electronic signature device comprising:
 - a) a receiver for receiving input information;
 - b) a data processor component for creating a signature data set comprising at least the received information and a document extract value of the document for signing; and
 - c) an encryption component for creating an expanded digital signature by encrypting the signature data set

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with the aid of a signature key stored at said signature device.

- 10. (original) The signature device in accordance with Claim 9, wherein the device is a chipcard.
- 11. (currently amended) A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for generating a digital signature in a self-authenticating signature device having a signature program and certificate with signature key stored thereon, said method steps comprising:
 - a) receiving input information to said signature device; and
 - b) executing said signature program by the steps of: creating a signature data set comprising at least the received information and a document extract value of the document for signing; and

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e) creating an expanded digital signature by encrypting the signature data set with the aid of a signature key stored in said certificate.

- 12. (currently amended) An improved digital signature, wherein the improvement comprises the inclusion of additional information generated by a self-authenticating signature device having signature certificate information stored with a signature program in addition to a document extract value of a document for signing.
- 13. (original) The improvement in accordance with Claim 12, wherein the additional information comprises information which uniquely identifies it in relation to every other digital signature generated with the same signature key.
- 14. (original) The improvement in accordance with Claim 12, wherein the additional information comprises information as to the signature device with which the digital signature was executed.

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15. (original) The improvement in accordance with Claim 12 wherein the additional information comprises information on the hardware and software environment used in generating the signature.